

**The Knowledge Bank at The Ohio State University**  
**Ohio State Engineer**

**Title:** Experiment Station

**Issue Date:** Nov-1925

**Publisher:** Ohio State University, College of Engineering

**Citation:** Ohio State Engineer, vol. 9, no. 1 (November, 1925), 16.

**URI:** <http://hdl.handle.net/1811/33725>

**Appears in Collections:** [Ohio State Engineer: Volume 9, no. 1 \(November, 1925\)](#)

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#### EXPERIMENT STATION

Bulletin No. 31: *Thermal Conductivities of Alloys*, by Alpheus W. Smith. Contains results of experiments to determine thermal conductivities and electrical conductivities of more than thirty alloys. Professor Smith explains that owing to recent advances in the study of crystal structure by means of X-rays, much has been learned concerning the nature of the processes which take place when two metals are mixed with each other. On account of this new knowledge concerning crystal structure in metals and their alloys, it becomes possible for the first time to interpret the variations in the thermal properties of alloys in terms of changes in the dimensions or types of crystal lattice. For this reason the present study was inviting and offered an opportunity to get at the nature of the transfer of heat in metals and their alloys.

Circular No. 12: *WEAO Radio Broadcasting Station*, by Mrs. F. G. Charles and Mr. R. C. Higgy. This circular contains a complete description of the station, its methods and accomplishments. Eight full page illustrations help present the interesting report.

Circular No. 13: *Transition from Natural Gas to Manufactured Gas*, by D. J. Demorest. An attempt is made to answer the question: "How can the failing natural gas supply be supplemented by new sources of gas so that an ample supply of gas can be available at all times to take care not merely of the present needs but of the rapidly increasing demands for gas?" Since "a change will very soon be necessary," Professor Demorest delves capably into the specific problems of gas sources, production costs and even plant locations.

NOTE.—*All bulletins can be obtained free of charge at the mailing office in the basement of University Hall.*

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#### LEFT IN THE LURCH

The young man who had an idea he was indispensable to his employer—but who was literally clinging to his job by the "skin of his teeth"—emerged from the chief's office wearing a puzzled look.

"Well, did you tell the old man where to get off if he didn't give you a raise?" asked one of the boys.

"Sure! I told him if I didn't get a raise I'd leave him in the lurch."

"Yes?"

"And he says: 'I haven't got time to sing it, but you'll find the firm's answer in the second line of Hail, Hail, the Gang's All Here!'"